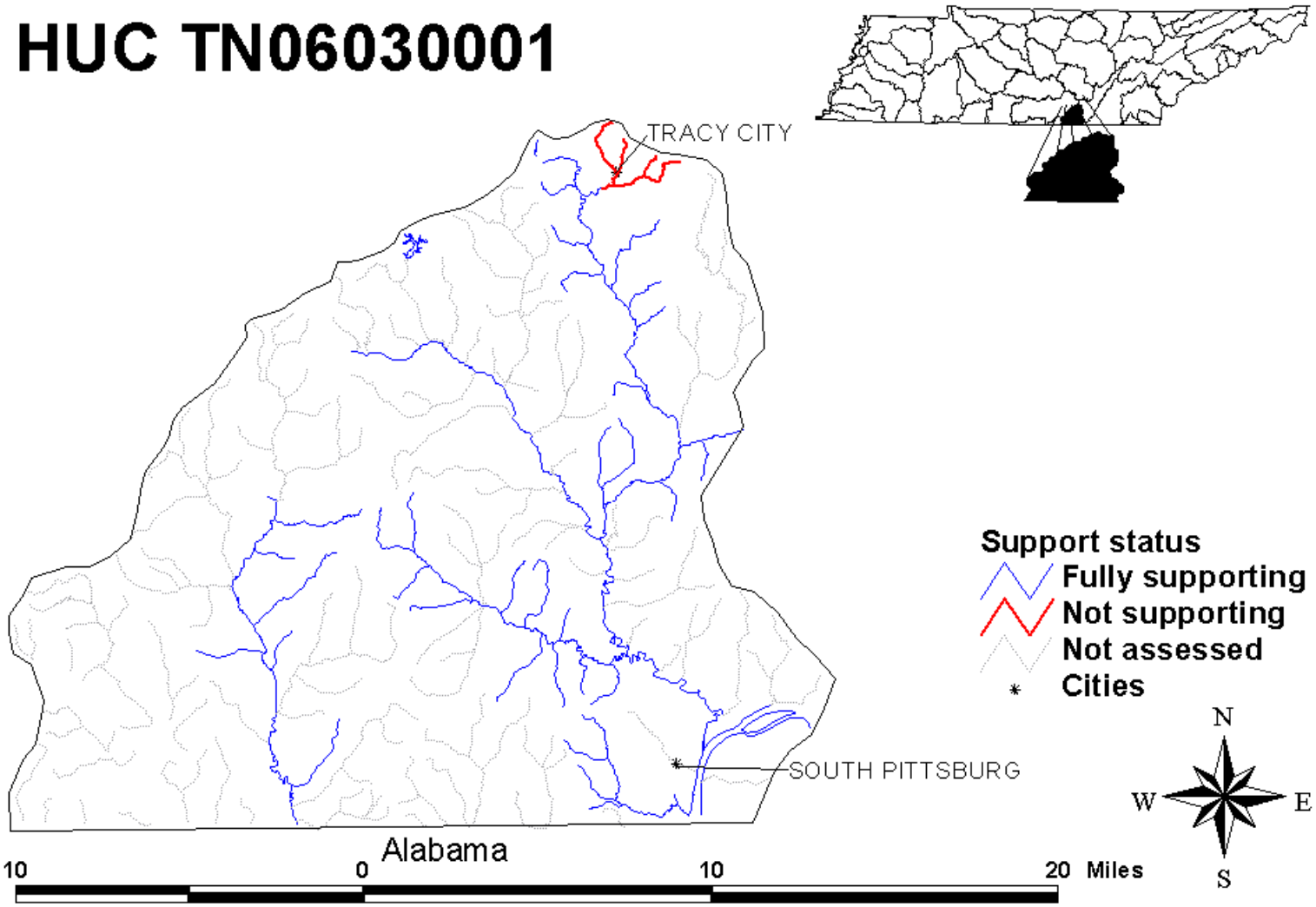
Guntersville Reservoir Watershed
HUC TN06030001



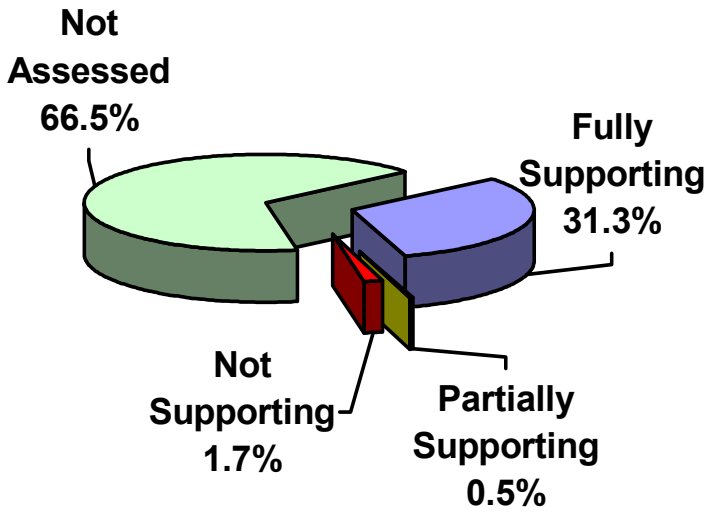
Guntersville Reservoir Watershed Atlas

HUC Code:	**TN06030001**	
Counties:	Franklin	Grundy
	Marion	
Ecoregions:	68a	
	68b	
	68c	
Drainage Size of Watershed:	322 square miles	
Stream Miles in Watershed:	424.3	
Stream Miles Fully Supporting:	133.1	
Stream Miles Partially Supporting:	0.5	
Stream Miles Not Supporting:	7.1	
Stream Miles Not Assessed:	283.6	
Lake Acres in Watershed:	1479	
Lake Acres Fully Supporting:	1479 (100%)	
TDEC Monitoring Stations:	20	
Non-TDEC Monitoring Stations:	1	
Advisories:	0	
Watershed Monitoring Group:	5	

Surface Water Quality in Guntersville Reservoir Watershed

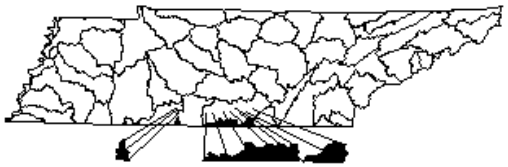
Only 16 percent of the watershed is in Tennessee with the remainder in Alabama. This is a rural area with small farms and mining. Data were only available to assess 33 percent of the streams. However, 94 percent of the surveyed streams were fully supporting. Pathogens and siltation were the primary pollutant. Guntersville Reservoir is fully supporting.

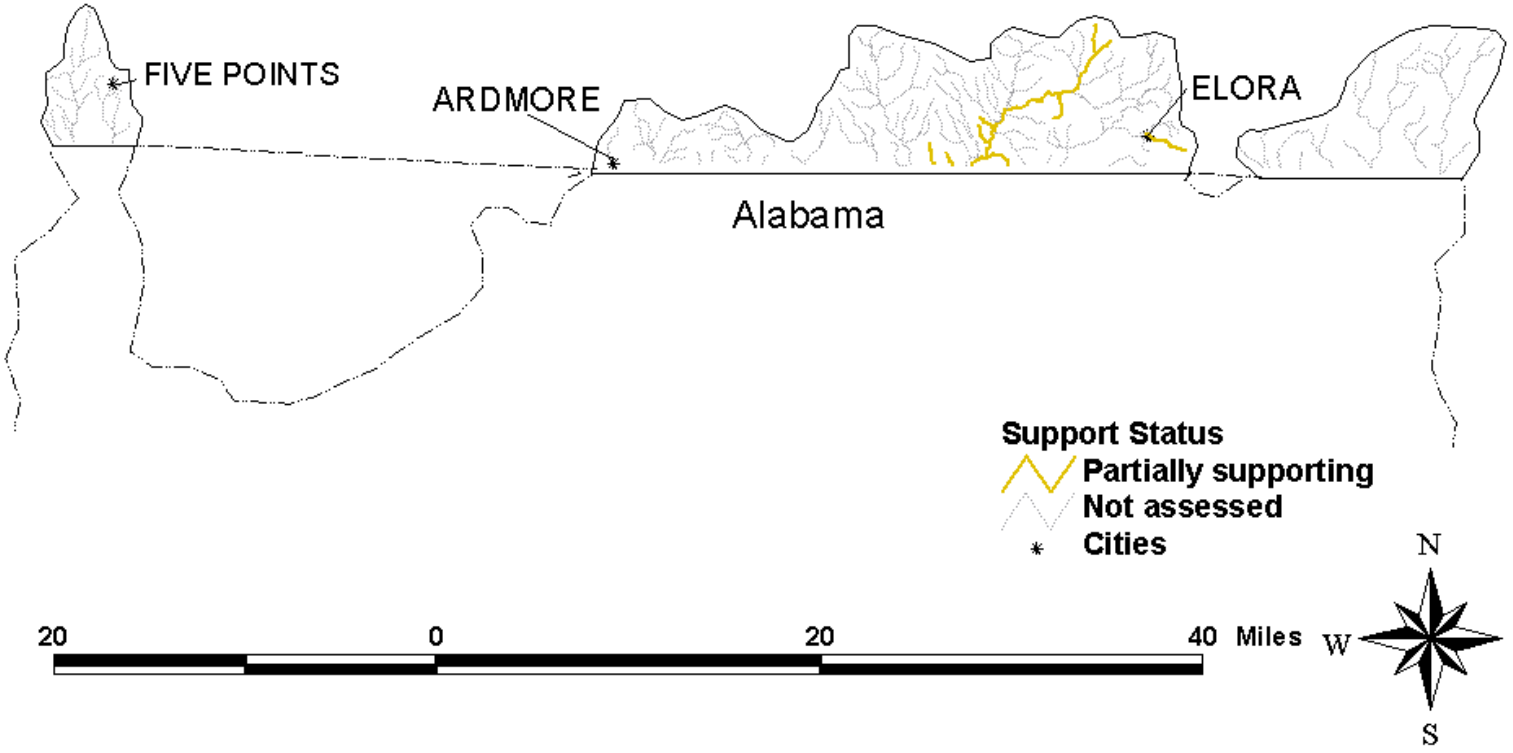
This watershed has one high quality stream that is a subecoregion reference site, Crow Creek in 68c (Plateau Escarpment).



2002 Assessment of Rivers and Streams in Guntersville Reservoir Watershed

Wheeler Reservoir Watershed
HUC TN06030002





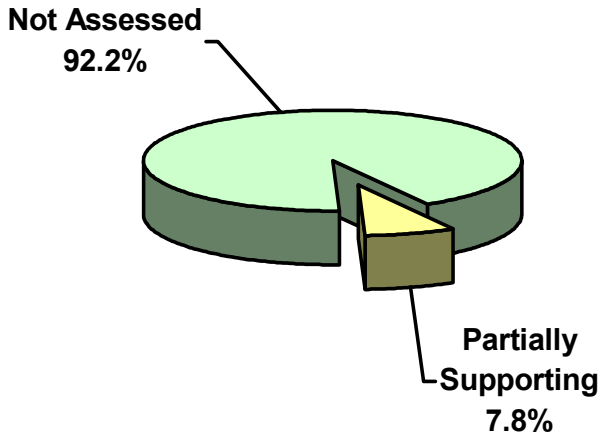
Wheeler Reservoir Watershed Atlas

HUC Code:	**TN06030002**	
Counties:	Franklin	Giles
	Lawrence	Lincoln
Ecoregions:	68a	
	68c	
	71f	
	71g	
Drainage Size of Watershed:	236 square miles	
Stream Miles in Watershed:	313.3	
Stream Miles Fully Supporting:	0.0	
Stream Miles Partially Supporting:	24.5	
Stream Miles Not Supporting:	0.0	
Stream Miles Not Assessed:	288.8	
Lake Acres in Watershed:	None	
TDEC Monitoring Stations:	19	
Non-TDEC Monitoring Stations:	9	
Advisories:	None	
Watershed Monitoring Group:	2	

Surface Water Quality in Wheeler Reservoir Watershed

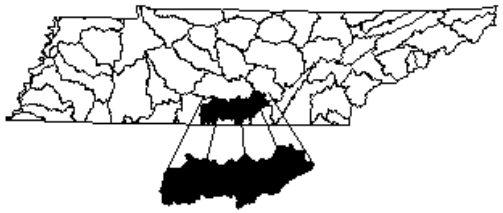
Eight percent of this watershed is in Tennessee. The rest is in Alabama.

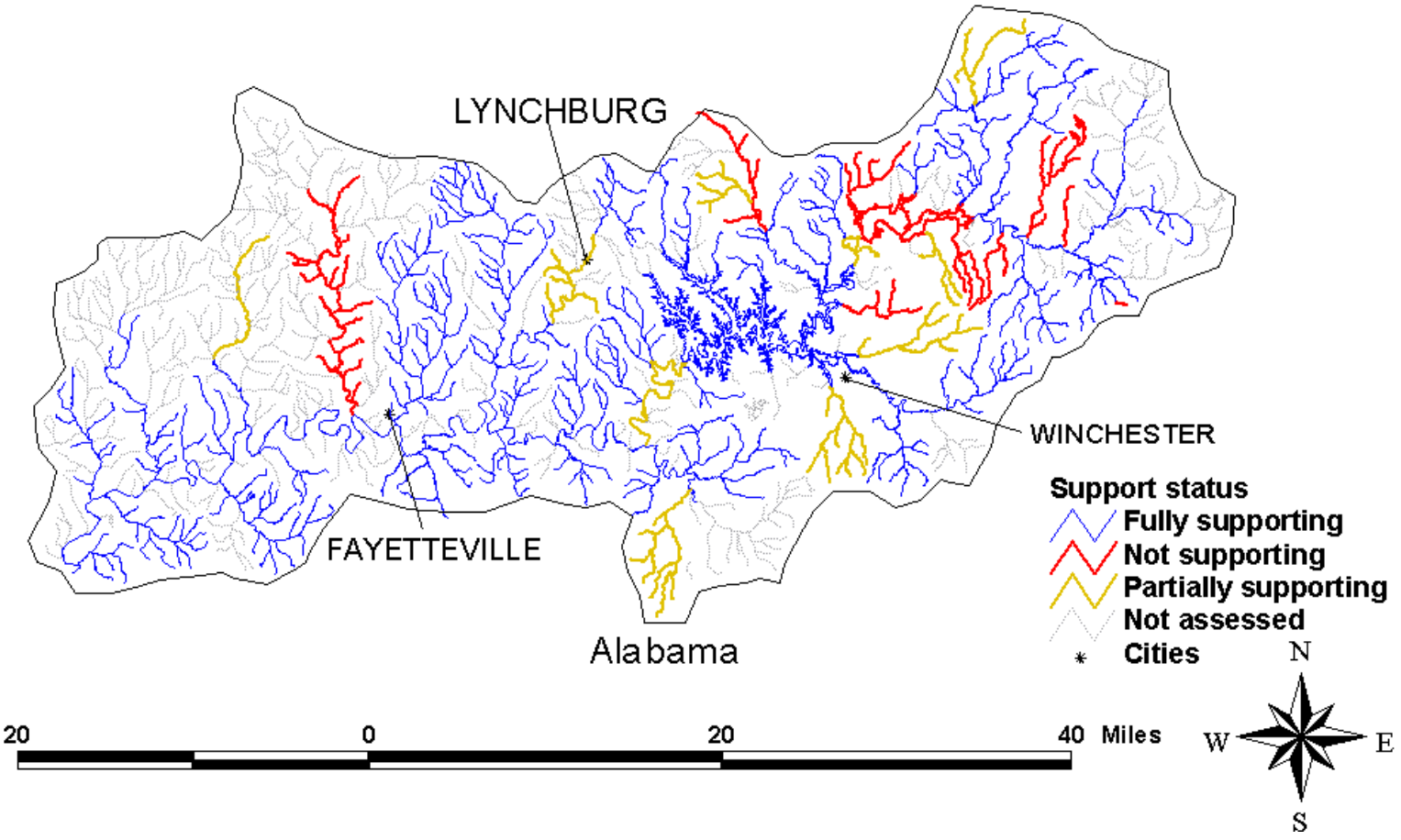
Only two streams have been assessed in this watershed. Both are partially supporting. The Flint River is impaired by siltation and habitat alterations from crop production activities. This watershed is scheduled to be surveyed in Fall 2002 and 19 stations have been established. Assessment data will be included in the 2004 report.



2002 Assessment of Rivers and Streams in Wheeler Reservoir Watershed

Upper Elk River Watershed
HUC TN06030003





Upper Elk River Watershed Atlas

HUC Code: **TN06030003**

Counties:	Coffee	Franklin	Giles
	Grundy	Lincoln	Marshall
	Moore		

Ecoregions:	68a	68c
	71h	71g

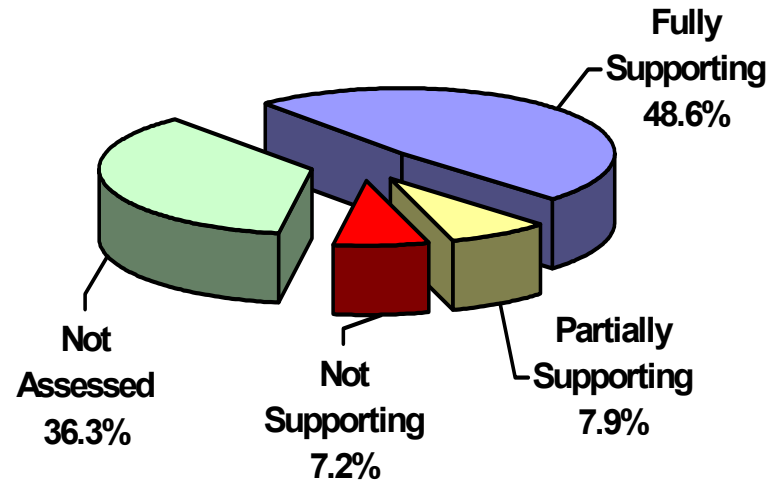
Drainage Size of Watershed:	1260 square miles
Stream Miles in Watershed:	1,812.5
Stream Miles Fully Supporting:	881.4
Stream Miles Partially Supporting:	144.0
Stream Miles Not Supporting:	129.6
Stream Miles Not Assessed:	657.5
Lake Acres in Watershed:	14,504
Lake Acres Fully Supporting:	10,596 (73.1%)
Lake Acres Not Supporting:	3,908 (26.9%)
TDEC Monitoring Stations:	108
Non-TDEC Monitoring Stations:	6
Advisories:	1
Watershed Monitoring Group:	2

Surface Water Quality in Upper Elk River Watershed (including Tims Ford and Woods Reservoirs)

Over 99 percent of the watershed is in Tennessee with a small portion in Alabama. TVA completed Tims Ford hydroelectric dam in 1970. The U.S. Air Force completed Woods Dam in 1952 to use as a source of cooling water. Both reservoirs are popular recreation areas.

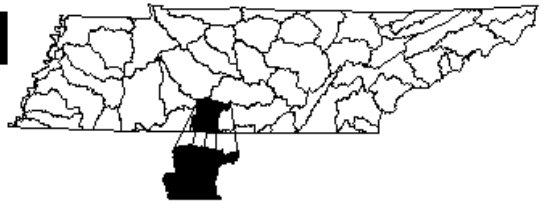
Woods Reservoir is not supporting due to PCBs from contaminated sediments. Tims Ford Reservoir, as well as 76 percent of assessed streams in the watershed, is fully supporting.

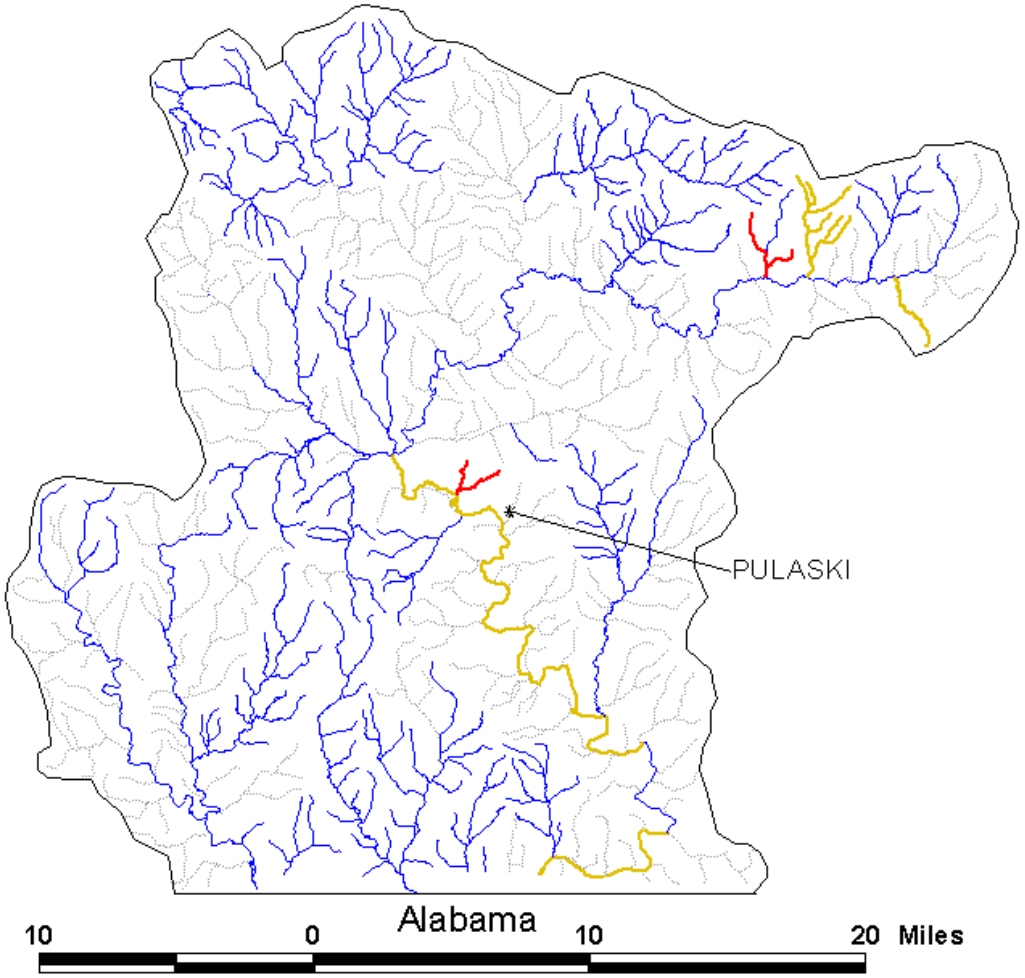
Two high quality streams are subecoregion reference sites, Mud Creek in 68c (Plateau Escarpment) and Hurricane Creek in 71g (Eastern Highland Rim).



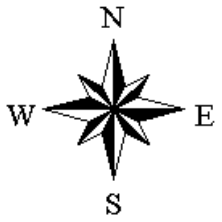
2002 Assessment of Rivers and Streams in Upper Elk River Watershed

Lower Elk River Watershed
HUC TN06030004





Support status
- Fully supporting
- Not supporting
- Partially supporting
- Not assessed
- Cities



Lower Elk River Watershed Atlas

HUC Code: **TN06030004**

Counties: Giles
Lawrence
Marshall

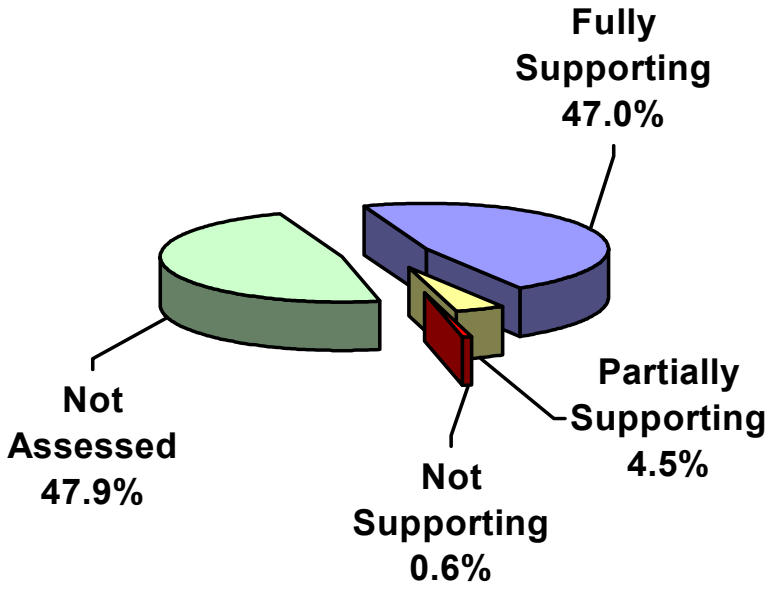
Ecoregions: 71f
71h

Drainage Size of Watershed:	718 square miles
Stream Miles in Watershed:	1,117.3
Stream Miles Fully Supporting:	524.7
Stream Miles Partially Supporting:	50.0
Stream Miles Not Supporting:	7.2
Stream Miles Not Assessed:	535.4
Lake Acres in Watershed:	None
TDEC Monitoring Stations:	80
Non-TDEC Monitoring Stations:	1
Advisories:	None
Watershed Monitoring Group:	2

Surface Water Quality in Lower Elk River Watershed

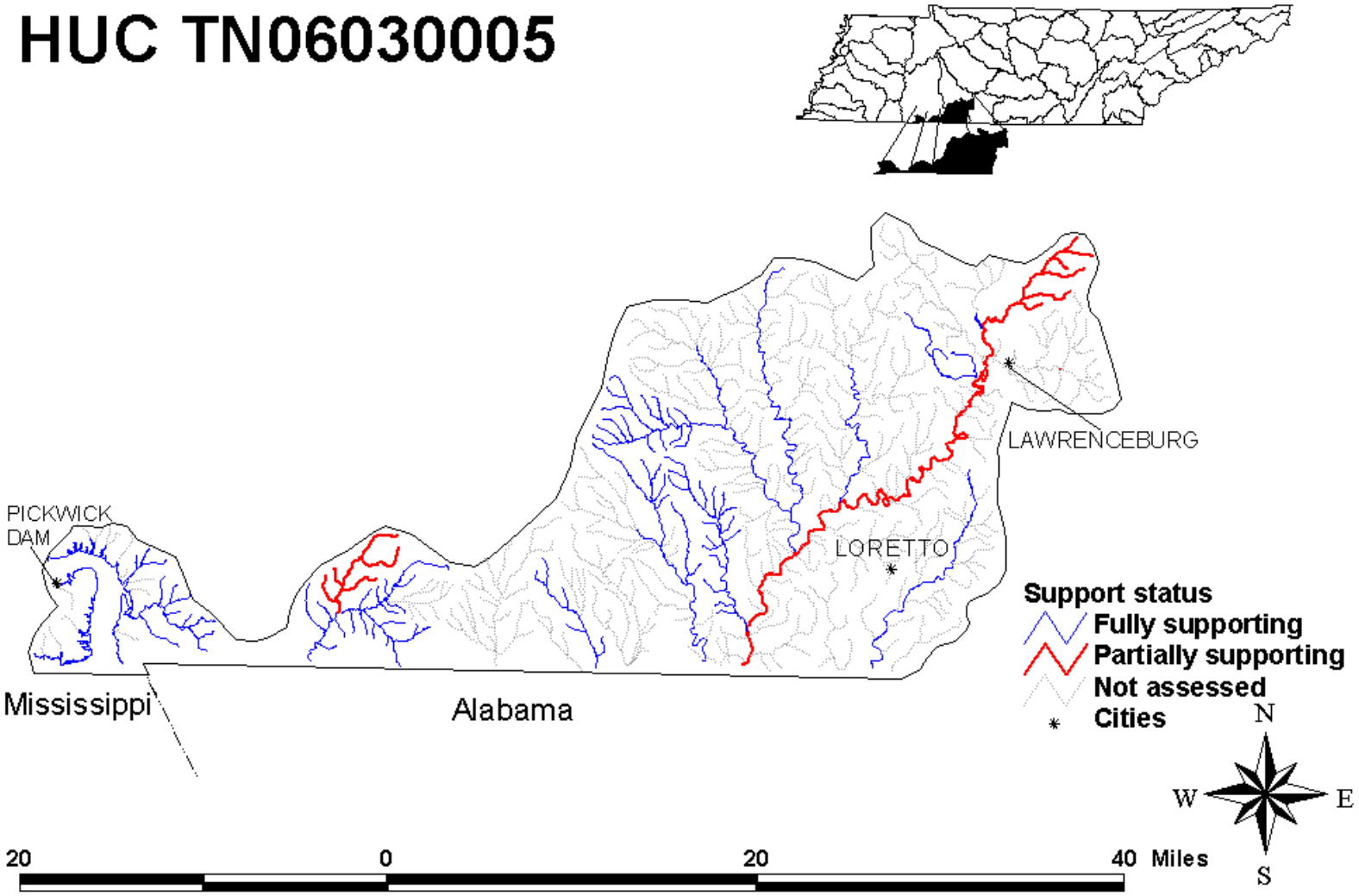
Seventy-six percent of the watershed is in Tennessee with the remainder in Alabama. From Tennessee, the Elk River flows into Wheeler Reservoir on the Tennessee River in Alabama.

The drainage area is primarily agricultural with row crops and pasture prevalent. Assessments in this watershed have increased from eight percent in 2000 to 52 percent for this report. Most of the newly assessed steams (90 percent) were fully supporting. Industry, municipal point sources and livestock account for the majority of impaired stream miles.



2002 Assessment of Rivers and Streams in Lower Elk River Watershed

Pickwick Reservoir Watershed
HUC TN06030005



Pickwick Reservoir Watershed Atlas

HUC Code: **TN06030005**

Counties: Hardin
Lawrence
Wayne

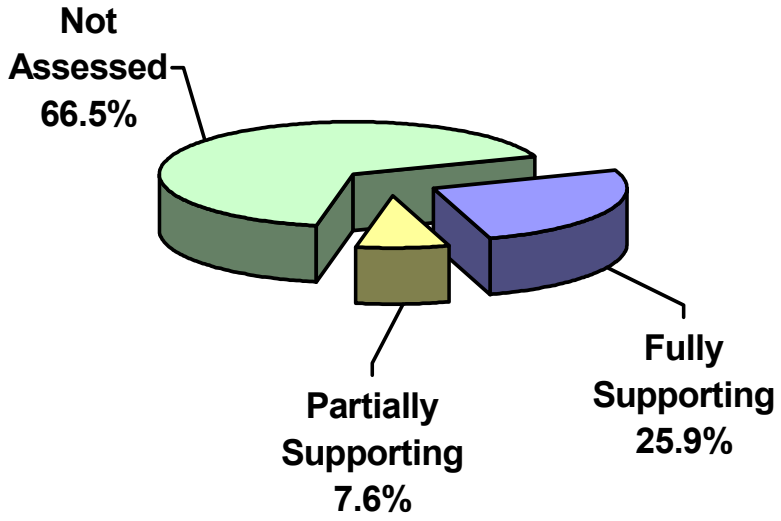
Ecoregions: 65i
65j
71f

Drainage Size of Watershed:	639 square miles
Stream Miles in Watershed:	953.2
Stream Miles Fully Supporting:	247.1
Stream Miles Partially Supporting:	72.4
Stream Miles Not Supporting:	0.0
Stream Miles Not Assessed:	633.7
Lake Acres in Watershed:	5,840
Lake Acres Fully Supporting:	5,840 (100%)
TDEC Monitoring Stations:	81
Advisories:	None
Watershed Monitoring Group:	2

Surface Water Quality in Pickwick Reservoir Watershed

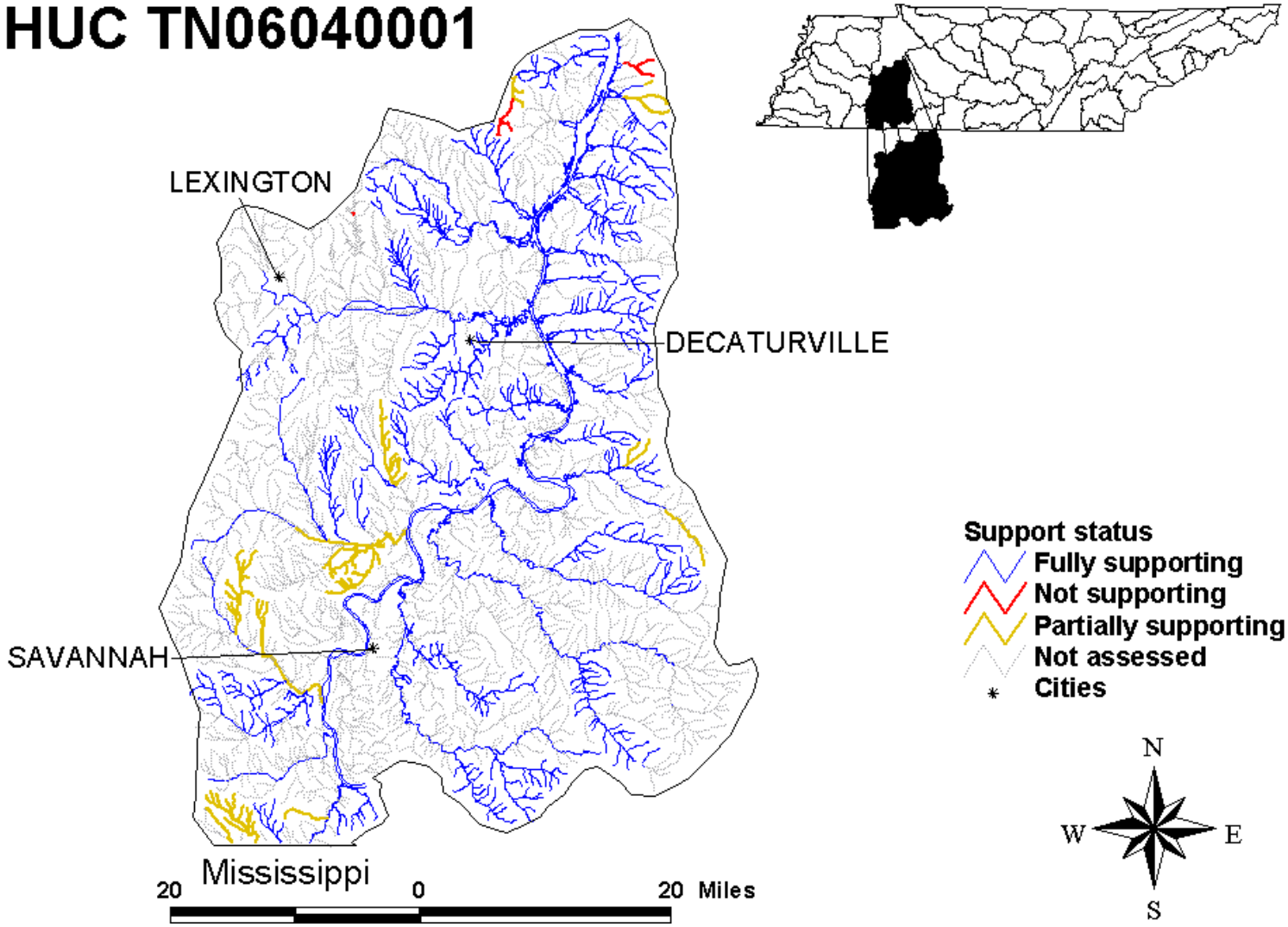
Only 28 percent of the watershed is in Tennessee with the remainder in Mississippi and Alabama. Pickwick Reservoir is a TVA impoundment of the Tennessee River. Seventy-seven percent of assessed streams are fully supporting. Industry, municipal point source, and livestock are the primary pollution sources. EPA has approved organic enrichment, ammonia TMDLs on a segment of Shoal Creek (2.3 stream miles).

This watershed has four high quality streams that are subecoregion reference sites, Battle Branch in 65i (Fall Line Hills), Pompeys Branch and Dry Creek in 65j (Transition Hills), and Swanegan Branch in 71f (Western Highland Rim).



2002 Assessment of Rivers and Streams in Pickwick Reservoir Watershed

Upper Kentucky Reservoir Watershed
HUC TN06040001



Upper Kentucky Reservoir Watershed Atlas

HUC Code: **TN06040001**

Counties:	Benton	Chester	Decatur
	Hardin	Humphreys	Henderson
	McNairy	Perry	Wayne

Ecoregions:	65a	65e	65i
	65j	71f	

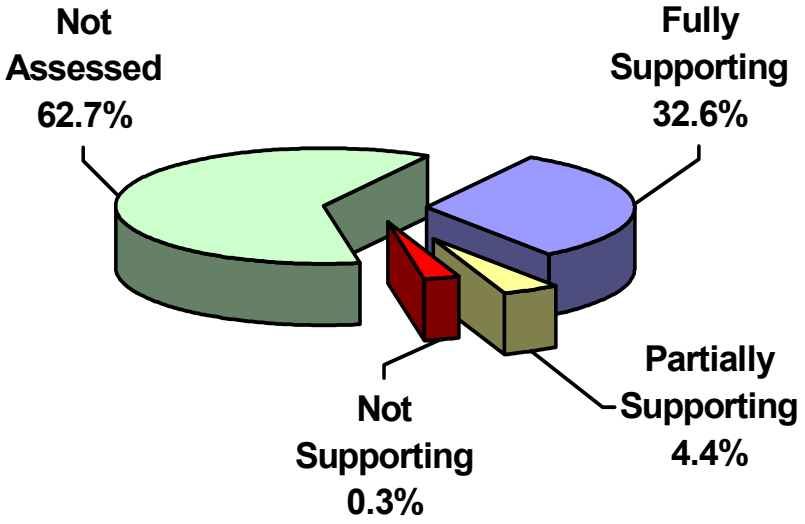
Drainage Size of Watershed:	2,049 square miles
Stream Miles in Watershed:	3,435.2
Stream Miles Fully Supporting:	1,119.3
Stream Miles Partially Supporting:	153.0
Stream Miles Not Supporting:	9.8
Stream Miles Not Assessed:	2,153.1
Lake Acres in Watershed:	20,763
Lake Acres Fully Supporting:	17,500 (84.3%)
Lake Acres Not Assessed:	3,263 (15.7%)
TDEC Monitoring Stations:	140
Non-TDEC Monitoring Stations:	3
Advisories:	None
Watershed Monitoring Group:	3

Surface Water Quality in Upper Kentucky Reservoir Watershed

Over 98 percent of the watershed is in Tennessee with a small portion in Mississippi. Between 1963 and 1965 TVA constructed dams on the Beech River and seven tributaries for flood control and recreational use.

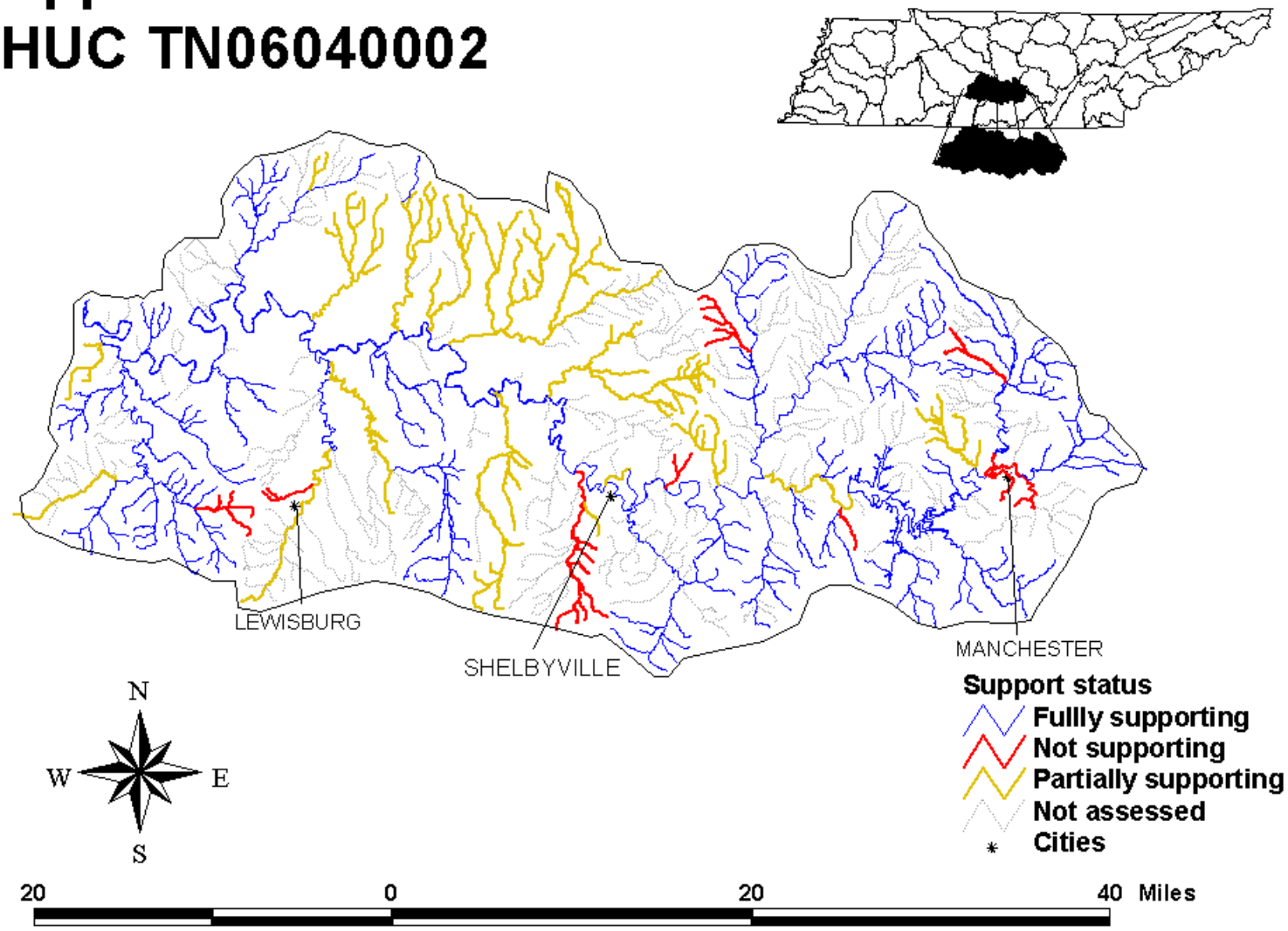
Logging, agriculture and channelization are the primary pollution sources with siltation the most prevalent pollutant. Eighty-seven percent of assessed streams are fully supporting.

Two high quality streams are subecoregion reference sites, Right Fork Whites Creek and an unnamed tributary to Right Fork Whites Creek in 65j (Transition Hills).



2002 Assessment of Rivers and Streams in Upper Kentucky Reservoir Watershed

Upper Duck River Watershed
HUC TN06040002



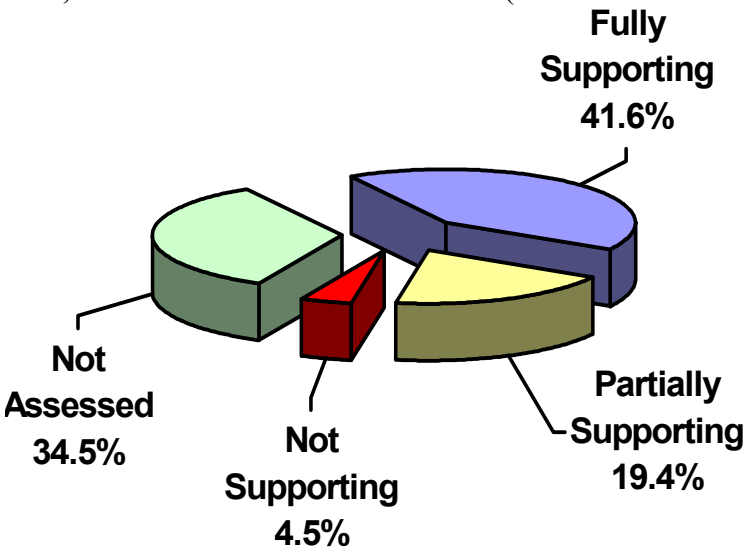
Upper Duck River Watershed Atlas

HUC Code:	**TN06040002**	
Counties:	Bedford	Coffee
	Marshall	Williamson
Ecoregions:	71g	
	71h	
	71i	
Drainage Size of Watershed:	1553 square miles	
Stream Miles in Watershed:	1,606.9	
Stream Miles Fully Supporting:	668.4	
Stream Miles Partially Supporting:	311.7	
Stream Miles Not Supporting:	72.8	
Stream Miles Not Assessed:	554.0	
Lake Acres in Watershed:	3,260	
Lake Acres Fully Supporting:	3,260 (100%)	
TDEC Monitoring Stations:	287	
Non-TDEC Monitoring Stations:	45	
Advisories:	2	
Watershed Monitoring Group:	3	

Surface Water Quality in Upper Duck River Watershed (including Normandy Reservoir)

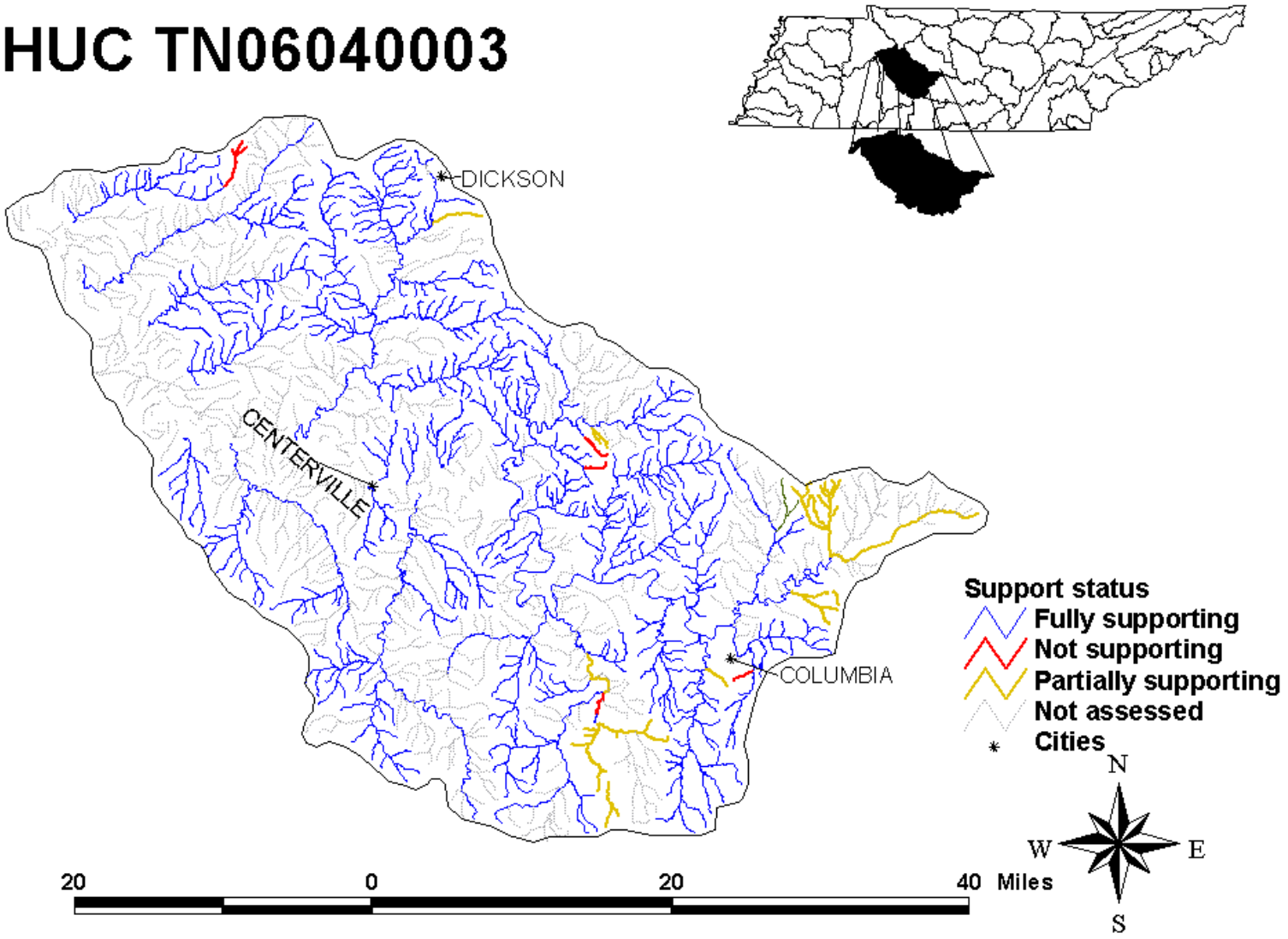
The entire watershed is in Tennessee. Normandy Dam, built for flood control, is TVA's largest non-power generating dam. Sixty-four percent of surveyed stream miles were fully supporting. Pathogens, nutrients, siltation and habitat alteration from agricultural activities impair the most stream miles.

Portions of the Duck River are designated as a State Scenic River. The river also provides habitat for several endangered species. Two high quality streams are subecoregion reference sites, Flat and Little Flat Creeks in 71i (Inner Nashville Basin).



2002 Assessment of Rivers and Streams in Upper Duck River Watershed

Lower Duck River Watershed
HUC TN06040003



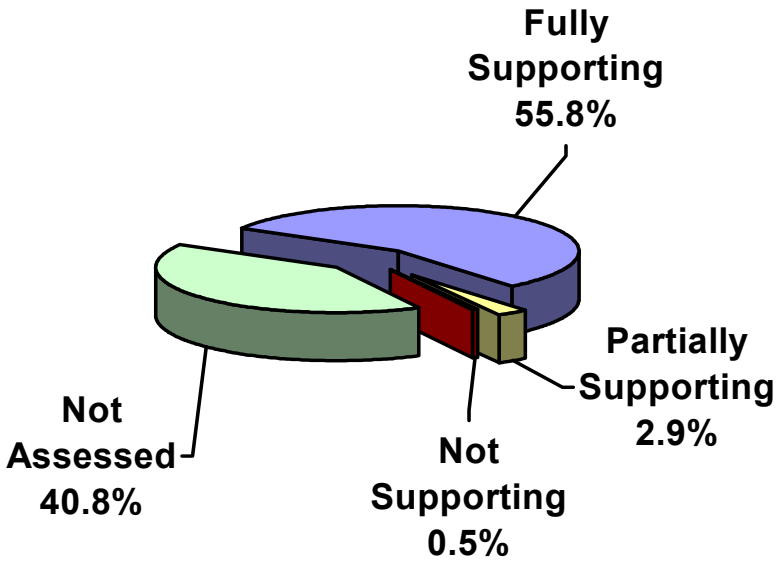
Lower Duck River Watershed Atlas

HUC Code:	**TN06040003**	
Counties:	Dickson	Hickman
	Humphreys	Lawrence
	Lewis	Maury
	Perry	Wayne
	Williamson	
Ecoregions:	71f	
	71h	
Drainage Size of Watershed:		736 square miles
Stream Miles in Watershed:		2,461.8
Stream Miles Fully Supporting:		1,374.0
Stream Miles Partially Supporting:		70.9
Stream Miles Not Supporting:		13.1
Stream Miles Not Assessed:		1,003.8
Lake Acres in Watershed:		13
Lake Acres Not Assessed:		13 (100%)
TDEC Monitoring Stations:		86
Non-TDEC Monitoring Stations:		24
Advisories:		None
Watershed Monitoring Group:		3

Surface Water Quality in Lower Duck River Watershed

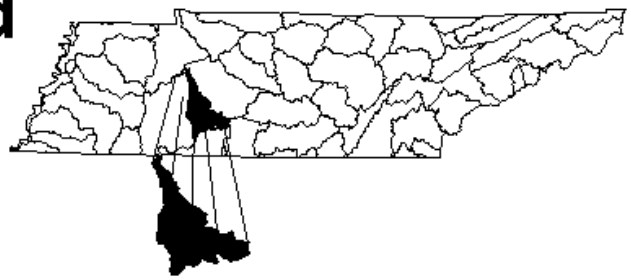
The entire watershed is in Tennessee. The area is primarily agricultural with some small towns and industry. There are also some abandoned mines. Ninety-four percent of assessed streams are fully supporting. Point source discharges (industrial and municipal), urban runoff, abandoned mines and livestock operations are sources of impairment.

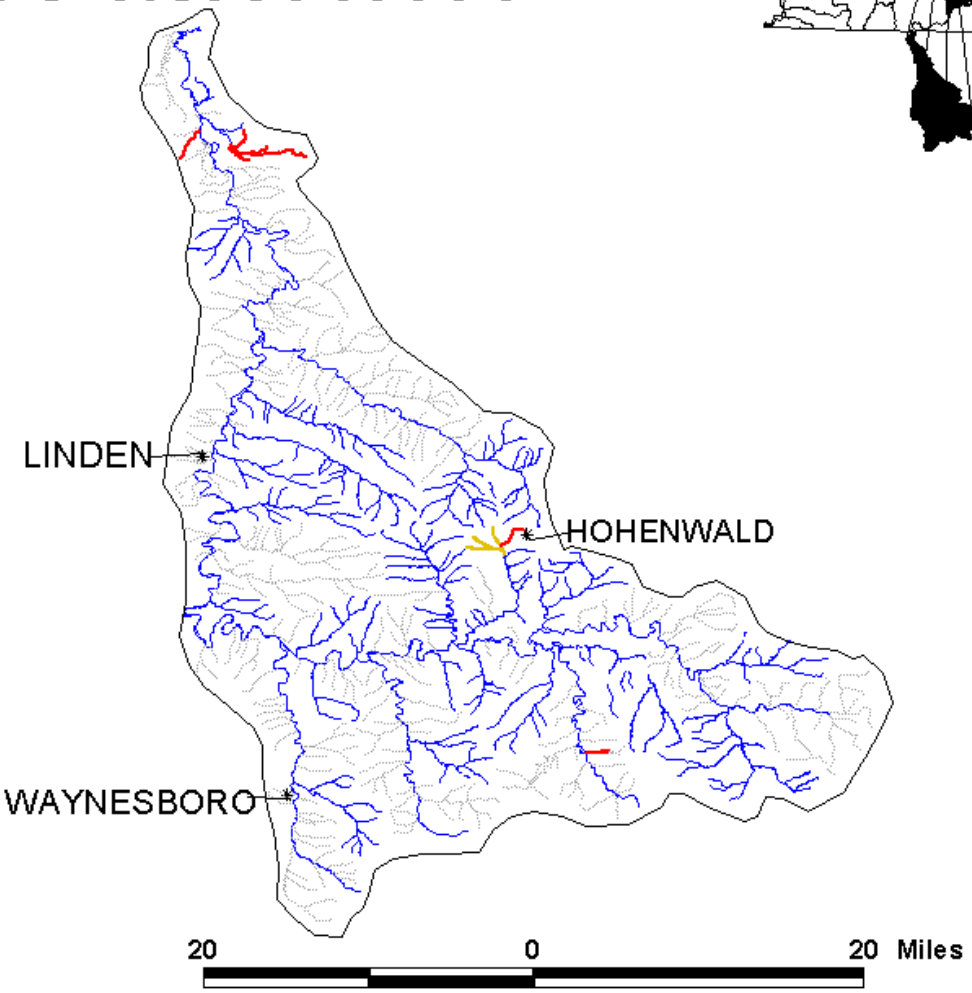
This watershed has two high quality streams that are subecoregion reference sites, Wolf and Little Swan Creeks in 71f (Western Highland Rim).



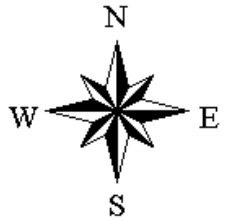
2002 Assessment of Rivers and Streams in Lower Duck River Watershed

Buffalo River Watershed
HUC TN06040004





Support status
- Fully supporting
- Not supporting
- Partially supporting
- Not assessed
- Cities



Buffalo River Watershed Atlas

HUC Code: **TN06040004**

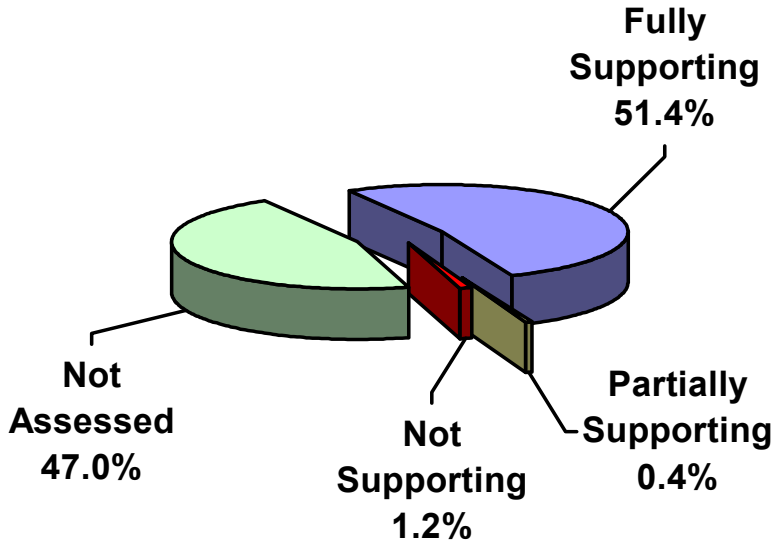
Counties:	Hickman	Humphreys
	Lawrence	Lewis
	Perry	Wayne
Ecoregions:	65j	
	71f	
Drainage Size of Watershed:	1,823 square miles	
Stream Miles in Watershed:	1,200.0	
Stream Miles Fully Supporting:	616.6	
Stream Miles Partially Supporting:	5.1	
Stream Miles Not Supporting:	14.1	
Stream Miles Not Assessed:	564.2	
Lake Acres in Watershed:	349	
Lake Acres Not Assessed:	349 (100%)	
TDEC Monitoring Stations:	87	
Advisories:	None	
Watershed Monitoring Group:	3	

Surface Water Quality in Buffalo River Watershed

The entire watershed is in southern middle Tennessee. The Buffalo River flows into the Duck River just upstream of its confluence with the Tennessee River.

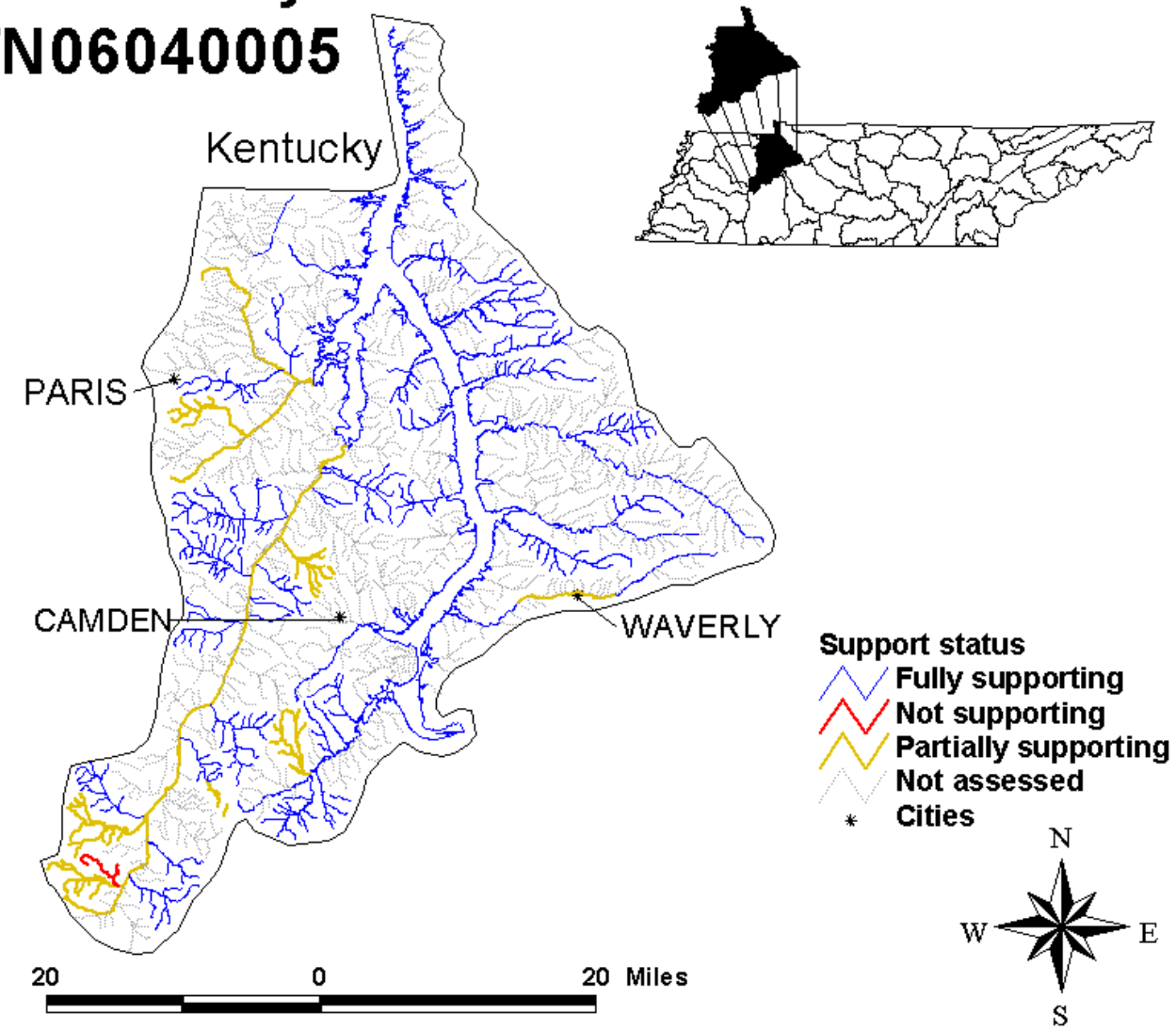
Overall water quality is good with 97 percent of assessed stream miles fully supporting designated uses.

The Tennessee General Assembly has designated portions of the Buffalo River as a State Scenic River. It is popular for canoeists and supports several commercial operators. This watershed also has one high quality stream that is a subecoregion reference site, Bush Creek in 71f (Western Highland Rim).



2002 Assessment of Rivers and Streams in Buffalo River Watershed

Lower Kentucky Reservoir Watershed
HUC TN06040005



Lower Kentucky Reservoir Watershed Atlas

HUC Code: **TN06040005**

Counties:	Benton	Carroll
	Henderson	Henry
	Houston	Humphreys
	Stewart	
Ecoregions:	65e	71f
	74b	

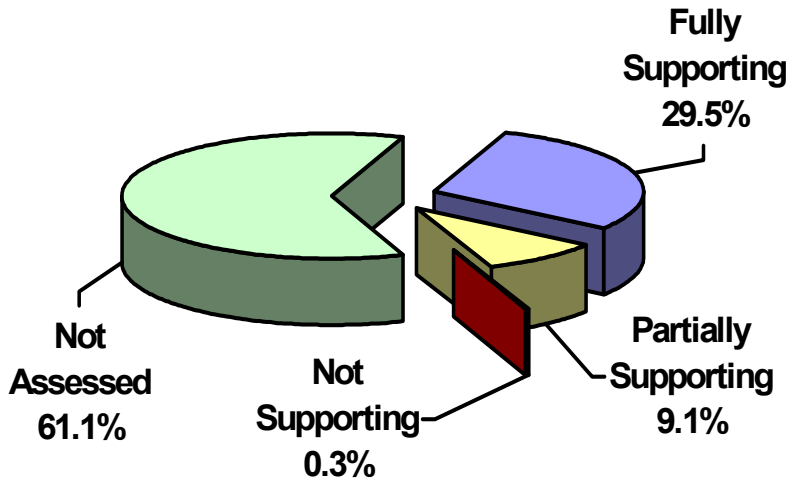
Drainage Size of Watershed:	1430 square miles
Stream Miles in Watershed:	2,042.6
Stream Miles Fully Supporting:	602.4
Stream Miles Partially Supporting:	186.0
Stream Miles Not Supporting:	5.9
Stream Miles Not Assessed:	1,248.3
Lake Acres in Watershed:	100,000
Lake Acres Fully Supporting:	100,000 (100%)
TDEC Monitoring Stations:	100
Non-TDEC Monitoring Stations:	2
Advisories:	None
Watershed Monitoring Group:	2

Surface Water Quality in Lower Kentucky Reservoir Watershed

About 79 percent of the watershed is in Tennessee with the remainder in Kentucky. Kentucky Dam is in Kentucky.

Data were available to assess 31 percent of the stream miles; additional surveys are scheduled this fall. Seventy-six percent of assessed miles were fully supporting. Agriculture and channelization impair the most stream miles.

This watershed has one high quality stream that is a subecoregion reference site, Blunt Creek in 65e (Southeastern Plains and Hills).



2002 Assessment of Rivers and Streams in Lower Kentucky Reservoir Watershed